

The Afghanistan Engineering Support Program assembled this annual report. It is an approved, official USAID document. Budget information contained herein is for illustrative purposes. All policy, personal, financial, and procurement sensitive information has been removed. Additional information on the report can be obtained from Firouz Rooyani, Tetra Tech Sr. VP International Operations, (703) 387-2151.



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AFGHANISTAN

ENGINEERING SUPPORT PROGRAM

FINAL 2011 ANNUAL REPORT



Draft Submitted: October 29, 2011

Final Submitted: December 22, 2011

This publication was produced for review by the United States Agency for International Development. It was prepared by Tetra Tech.

This report was prepared for the United States Agency for International Development, Contract No. EDH-I-00-08-00027-00, Task Order 01, Afghanistan Engineering Support Program.

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December 22, 2011

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Re: Contract No. EDH-I-00-08-00027-00, Order No. 1; Afghanistan Engineering Support Program; Final Annual Report for FY 2011

Dear [REDACTED]

Per section C.5, "Deliverables," paragraph G of the above referenced contract, we are submitting the Final 2011 Annual Report for the 2011 Fiscal Year. The report covers the period of October 1, 2010 through September 30, 2011.

Please feel free to contact me with any questions or comments.

Respectfully,

[REDACTED]

Acting Chief of Party, OIEE-AESP
Tetra Tech

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DISCLAIMER

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1.0 Executive Summary

This is the FY2011 Annual Report submitted under Task Order EDH-I-00-08-00027-00, Order No. 1; Afghanistan Engineering Support Program. The reporting period is for October 1, 2010 through September 30, 2011.

Table 1-1 Complete and Active FY2011 Work Orders						
Work Order Type	Sector					
	Energy	Water and Sanitation	Water Resources	Transportation	Vertical Structures	Technical Support Services
Administrative Work Orders	4	1	2	3	8	7
Long Term Work Orders	11	3	1	8	3	5
The value of Long Term Work Orders initiated in FY2011 total [REDACTED].						

The purpose of the contract is to provide technical assistance to the Office of Infrastructure, Engineering & Energy (OIEE), by providing a quick response from a Kabul based core of expatriate architectural and engineering professionals. The Kabul-based Tetra Tech Team provides planning, design, technical and oversight support, while also contributing to capacity building, mentoring, and collaboration/coordination with appropriate stakeholders. The estimated period of performance for this contract is five (5) years from a notice to proceed date of November 14, 2009.

Technical assignments and tasks are categorized as either administrative (WO-A) or long term (WO-LT) work orders. Administrative work orders (WO-A) are defined as those assignments taking less than or equal to 18 man days (144 man hours) and are most often performed by the core staff in Kabul. Long Term work orders (WO-LT) are defined as those tasks taking longer than 18 man days (144 man hours), and supported by the Home Office staff as a reach back assignment with Kabul core staff providing coordination and management.

Deliverables for the Contract include the initial and Year 2 Work Plans, Security Plan, Weekly Meeting Minutes, Quarterly Progress Reports, Performance Monitoring Plan (PMP), Annual Work Plan, Annual Project Report and Final Report.

Our commitment to capacity development of Afghan staff individuals was supported by the hiring of 14 local nationals in Civil, Structural, Transportation, Electrical, Cost Estimating, and the Administration disciplines.

Tetra Tech also continued with the capacity building program where Tetra Tech's female engineering staff visited Kabul University and hosted a few meetings focused on mentoring fourth and fifth year engineering and architecture students of the school of engineering. A work order was implemented to start an internship program with these students.

2.0 Program Staffing

During FY2011, the OIEE-AESP expatriate staffing was focused on replacements for initial leads and support staff. Due to program changes, the Water Resources Lead was phased out and replaced with a Field Services Manager; the PRT Manager position was transitioned into a Communications Specialist; and one of the Junior Civil Engineer positions was transitioned into a general Junior Engineer position to allow it be utilized for other disciplines.

2.1 Expat Staffing

Table 2-1 International Staffing and Deployment			
Employee Name	Position	Afghanistan Arrival	Afghanistan Departure
	Chief of Party	11/20/09	4/23/10
	Finance Manager	11/20/09	N/A
	Vertical Structures Lead	12/6/09	5/27/10
	Energy Lead	12/6/09	1/18/11
	IT Specialist (STTA)	12/6/09	5/3/10
	Contracts Manager	12/13/09	12/11/10
	Chief of Party	12/23/09	10/8/10
	MIS Manager ⁽¹⁾	12/23/09	6/29/11
	Water/Wastewater Engineer	12/23/09	6/23/10
	Water Resources Lead	2/17/10	2/20/11
	Junior Civil/Structural Engineer	2/17/10	11/19/10
	Geologist (STTA)	3/8/10	6/12/10
	Deputy Chief of Party	3/15/10	3/13/11
	Acting Chief of Party	6/14/10	6/27/10
	Vertical Structures Lead	6/14/10	8/30/11
	Airport Planner (STTA)	6/14/10	7/12/10
	Technical Support Manager	6/26/10	N/A
	Water/Sanitation Lead	6/26/10	3/30/11
	Geologist (STTA)	7/13/10	11/20/10
	Deputy Chief of Party ⁽²⁾	7/31/10	N/A
	Sr. Project Manager ⁽³⁾	7/31/10	N/A
	Procurement and Finance Auditor	7/19/10	8/16/10
	Chief of Party ⁽⁴⁾	8/26/10	N/A
	Vertical Structures Electrical Engineer	8/26/10	9/4/10
	Administrative Manager	9/13/10	2/3/11
	Information Technology	10/3/10	10/24/10
	Sr. Quality Assurance Inspector/Sr. Construction Mgr.	12/3/10	N/A
	Contracts Manager	12/28/10	N/A
	Energy Lead	1/5/11	6/30/11
	Junior Civil Engineer	1/19/11	7/17/11
	Junior Civil Engineer	2/20/11	N/A
	Vertical Structures Electrical Engineer ⁽⁵⁾	4/19/11	N/A
	Field Manager ⁽⁶⁾	4/19/11	N/A
	Administrative Manager ⁽⁷⁾	6/16/11	N/A
	Energy Lead ⁽⁸⁾	7/4/11	N/A
	Transportation Lead ⁽⁹⁾	7/3/11	N/A
	Water/Sanitation Lead ⁽¹⁰⁾	7/14/11	N/A
	Communications Specialist ⁽¹¹⁾	8/18/11	N/A
	Junior Engineer ⁽¹²⁾	8/18/11	N/A
	MIS Manager	9/16/11	N/A

Notes:

- (1) Junior Civil Engineer then transferred to the position of MIS Manager after [REDACTED] demobilized.
- (2) Transportation Lead/SPR Manager then transferred to the position of Deputy Chief of Party upon the arrival of [REDACTED]
- (3) LTTA position transition from PRT Manager to Sr. Project Manager.
- (4) Deputy Chief of Party then transferred to the position of Chief of Party after [REDACTED] demobilized.
- (5) LTTA position replacement for previous Vertical Structures Electrical Engineer, [REDACTED].
- (6) LTTA position replacement for previous Water Resources Lead, [REDACTED].
- (7) LTTA position replacement for previous Administrative Manager, [REDACTED].
- (8) LTTA position replacement for previous Energy Lead, [REDACTED].
- (9) LTTA position replacement for previous Transportation Lead, [REDACTED], after his transition to Deputy Chief of Party.
- (10) LTTA position replacement for previous Water/Sanitation Lead, [REDACTED].
- (11) LTTA position created from transition of PRT Manager to Communications Specialist.
- (12) LTTA position created from transition of Junior Civil Engineer to Junior Engineer.

2.2 Expat Staffing Changes

[REDACTED] COP, demobilized in the beginning of the fiscal year. [REDACTED], DCOP, transferred into this position. [REDACTED] is currently serving as the DCOP, following the arrival of his replacement as Transportation Lead, [REDACTED], in the fourth quarter.

Based on the needs of the SPR work order, a Senior QA Inspector/Construction Manager, [REDACTED] mobilized in the first quarter.

The initial Energy Lead, [REDACTED] demobilized during the second quarter following the arrival of his replacement, [REDACTED]. [REDACTED] demobilized during the third quarter and this position is currently being filled by [REDACTED].

The Water/Sanitation Lead, [REDACTED], demobilized in the second quarter. His replacement, [REDACTED] mobilized during the fourth quarter.

[REDACTED] Water Resources Lead, demobilized during the second quarter. During this quarter, a Level of Effort table adjustment was approved. This adjustment phased out the Water Resources Lead and replaced it with a Field Services Manager position that is currently being filled by [REDACTED] since his mobilization during the third quarter.

Due to changes in the program, the PRT Manager position, which had been filled by [REDACTED] was phased out and replaced with a Communications Specialist position, which is currently being filled by [REDACTED]. [REDACTED] moved into the Sr. Project Manager position. The Sr. Project Manager position was created by phasing out the Vertical Structures Civil/Structural Lead.

Based on a high number of Energy work orders, the Vertical Structures Electrical Engineer position was filled by [REDACTED] in the third quarter and a Junior Engineer position was filled by [REDACTED] in the fourth quarter.

In addition to the long term staffing changes above, a number of short term employees were mobilized during the fiscal year.

2.3 Local National Staffing

Table 2-2 Local National Staffing			
Employee Name	Position	Start Date	End Date
[REDACTED]	Government Liaison/Tt	12/2/09	N/A
[REDACTED]	Facilities Maintenance/Tt	3/20/10	N/A
[REDACTED]	Facilities Manager/Tt	3/20/10	N/A
[REDACTED]	Contracts Assistant/Buyer/Tt	3/22/10	5/4/11
[REDACTED]	Accountant/Tt	3/23/10	N/A
[REDACTED]	Internal Auditor/Tt	3/27/10	N/A
[REDACTED]	Mid-Level Architect/Tt	4/5/10	N/A
[REDACTED]	IT Manager/Tt	4/15/10	N/A
[REDACTED]	IT Assistant/Tt	4/20/10	N/A
[REDACTED]	HR Manager/Tt	7/3/10	N/A
[REDACTED]	SPR Administrative Assistant/Tt	9/13/10	N/A
[REDACTED]	Administrative Assistant/Tt	10/1/10	N/A
[REDACTED]	SPR QA Monitor/USACC	10/2/10	N/A
[REDACTED]	SPR QA Monitor/USACC	10/2/10	N/A
[REDACTED]	SPR Mid-Level engineer/ USACC	10/9/10	N/A
[REDACTED]	SPR QA Monitor/USACC	10/9/10	5/8/11
[REDACTED]	SPR QA Monitor/USACC	10/12/10	10/10/11
[REDACTED]	Civil Engineer- Junior Level/USACC	10/24/10	8/16/11
[REDACTED]	Senior Administrative Assistant/Tt	10/24/10	N/A
[REDACTED]	Structural Engineer – Junior Level/SMART	11/29/10	N/A
[REDACTED]	Electrical Engineer – Junior Level/SMART	12/5/10	N/A
[REDACTED]	Civil Engineer – Mid Level/SMART	12/7/10	N/A
[REDACTED]	SPR QA Monitor/USACC	12/11/10	N/A
[REDACTED]	Electrical Engineer – Mid Level/SMART	3/15/11	N/A
[REDACTED]	Cost Estimator – Senior/Tt	4/16/11	N/A
[REDACTED]	Contracts Assistant/Buyer/Tt	6/12/11	N/A

In addition to the Local National Staff listed above, six (6) LNs are employed for facilities maintenance and five (5) cooking staff are employed.

2.4 Local National Staff Changes

During the second quarter, a Level of Effort table adjustment was approved, which changed the following in the Local National Staffing:

- Deleted the requirement for a Local National (LN) Mechanical Engineer/Mid and replaced it with a LN Electrical Engineer/Mid.
- Deleted the requirement for a LN Mechanical Engineer/Junior and replaced it with a LN Cost Estimator/Senior.
- Added four (4) members to the facility staff [this is an increase from seven (7) to 11 support staff.

3.0 Contract/Task Order

3.1 Contract/Task Order Activities

October 20, 2010: USAID-Office of Acquisition and Assistance (OAA) suspended (1) mobilization of equipment and personnel, (2) new or amended leases and (3) purchases or leasing of equipment and vehicles.

November 24, 2010: USAID-OAA lifted the October 20, 2010 suspension of mobilization of equipment and personnel, etc.

December 29-30, 2010: Tetra Tech received two (2) “government furnished equipment” armored cars from USAID to increase the AESP armored car fleet to three (3).

January 26, 2011: USAID issued MOD 10. The purpose of the MOD was to add the following Contract Requirements:

- Use of Synchronized Pre-deployment and Operational Tracker (SPOT) for Contractors Supporting a Diplomatic or Consular Mission Outside the United States.
- Serious Incident Reporting in Afghanistan
- Gender Integration Requirements

January 29, 2011: USAID issued MOD 11. The purpose of the MOD was to incrementally fund the Task Order by [REDACTED] thereby increasing the total obligated amount from [REDACTED] to a new obligated amount of [REDACTED]. The purpose of this MOD was to provide funding for Amendments 1 through 4 for WO-LT-0004 (MoPH).

February 22, 2011: Tetra Tech received approval for the Level of Effort (LOE) Table Staffing Adjustments, which approved the following:

- Deleted the requirement for an Expat Senior Mechanical Engineer and replaced it with an Expat Senior Energy Specialist.
- Phased out the requirement for the Expat Water Resources Lead and replaced it with an Expat Field Services Manager.
- Deleted the requirement for a Local National (LN) Mechanical Engineer/Mid and replaced it with a LN Electrical Engineer/Mid.
- Deleted the requirement for a LN Mechanical Engineer/Junior and replaced it with a LN Cost Estimator/Senior.
- Added four (4) members to the facility staff [this was an increase from seven (7) to 11 support staff].

June 26, 2011: USAID issued a contract modification to MOD 11. The purpose of the contract modification was to incorporate the following clause: The contractor shall comply with and adhere to all USAID Afghanistan Implementing Partner Notice. Notices are provided to implementing partners at the time of issuance and are also available upon request from Cognizant Contracting Officer. A reminder was included to the contractor of the recently issued Implementing Partner Notice No. OAA-IP-2011-004 which incorporates Mission Order No. 201.04 entitled, “National Security Screening (Non-US Party Vetting)”.

August 8, 2011: Tetra Tech received approval for the Level of Effort (LOE) Table Staffing Adjustments, which approved the following:

- Deleted the requirement for an Expat Vertical Structures Civil/Structural Lead and replaced it with an Expat Sr. Project Manager.
- Deleted the requirement for a Local National (LN) Civil Engineer/Sr. to support the SPR Roads Project and replaced it with a LN Sr. Geotechnical Engineer.
- Deleted the requirement for a LN Civil Engineer/Mid to support the SPR Roads Project and replaced it with a LN Sr. Writer/Editor.
- Deleted the requirement for the Expat PRT Manager and replaced it with an Expat Communications Specialist.
- Deleted the requirement for the Expat Civil Engineer/Jr. and replaced it with an Expat Engineer/Jr.
- Deleted the requirement for the LN Structural Engineer/Mid and replaced it with a LN Engineer/Mid.

3.2 Contract/Task Order Deliverables

November 1, 2010	Draft FY2010 Annual Report
November 13, 2010	Final FY2010 Annual Report
January 26, 2011	Final FY2011 Q1 Quarterly Report
April 19, 2011	Final FY2011 Q2 Quarterly Report
July 20, 2011	Final FY2011 Q3 Quarterly Report
August 12, 2011	Draft Work Plan (Year 3)

An electronic copy of the above referenced deliverables can be found in the CD provided in Appendix B.

3.3 Contract/Task Order Issues

3.3.1 Dynamics of USAID Engineering Requirements

The work orders that USAID has required under this contract have expanded rapidly during the second year. The focus of these work orders has grown toward the energy sector which the original contract did not envision. Eleven MODs to the contract have been processed with substantial increases in expat personnel (from 10 to 19), however in year 2 only three administrative modifications were processed. The use of LN personnel has also increased (from 39 to 70) and their contributions to our work orders have grown from 146 man-days (in year 1) to 3,328 man-days (in year 2). The flexibility to use reach back personnel has allowed Tetra Tech to meet USAID requirements within the level of effort prescribed by the Task Order.

3.3.2 Security Issues

Security concerns continue to shape the requirements of work orders under this contract. President Karzai's Decree 62, which disbands Private Security Companies, could still impact the method in which work orders are accomplished by restricting travel of expat engineers. Tetra Tech has engaged both the Afghanistan Public Protection Force and our Private Security Contractor to ensure we can continue to operate in a safe security envelope after the presidential decree becomes enforced. Deteriorating security conditions continue to dominate our decision making on when to inspect projects and conduct visits. This hampers our ability to provide the best reports, however we have still conducted enough visits to provide a high quality picture of infrastructure development.

3.3.3 Changing USAID Priorities

Several of our major work orders like Strategic Provincial Roads and Provincial Reconstruction Teams support have been reduced in scope or completing the level of effort as prescribed by USAID to the implementing partners. Our role overseeing these projects allows our team to focus on other USAID priorities. Our transportation group has taken on the role of Ministry of Transportation mentors and construction quality providers on two airport projects which were not progressing in a satisfactory manner. The requirement for high level electrical engineering support for transmission lines and generation support was met with a high level of success from our team of Tetra Tech and Power Engineering. Tetra Tech's focus on USAID priorities resulted in the continued ability to provide the engineering services USAID requires in an extremely challenging engineering and security environment

4.0 Work Orders

4.1 Sector Activities

The following sections describe the activities performed in each sector during FY2011 under this Task Order. A CD is provided in Appendix B that includes the Scopes of Work (SOW) and deliverables for the Administrative and Long Term Work Orders that were active during FY2011.

4.1.1 Energy

In FY2011, the Energy Sector continued work on a number of long term work orders to meet the objectives outlined in the *Report on Progress Toward Security and Stability in Afghanistan* (April 2010). The work product/studies will be the cornerstone to establish a reliable electrical transmission and generation system in Afghanistan. Existing long term work orders are described as follows:

4.1.1.1 WO-LT-0012 PK to Chimtala Transmission Line

FY2011: Tetra Tech conducted a study to determine the feasibility of the Pul-e-Khumri to Chimtala 220kV transmission line carrying 450 MW from the Northeast Electrical Power System (NEPS) into Kabul. The study shows that this is feasible with the addition of volt-ampere reactive (VAR) compensation equipment, namely shunt capacitors, series capacitors, and static VAR compensators. The final report has been submitted to USAID.

Initiatives: This work order was successfully completed.

4.1.1.2 WO-LT-0021 Selected NEPS Transmission Line Field Investigation

FY2011: Tetra Tech conducted field investigations on the Sheberghan to Mazar-e-Sharif transmission line and several substations including Mazar-e-Sharif, Sheberghan, Naibabad, Pul-e-Khumri, and Chimtala. The objective was to gather data to present a clear picture of NEPS. The final report was submitted to USAID on September 21st, 2011.

Initiatives: This work order was successfully completed.

4.1.1.3 WO-LT-0022 Power Reliability Study (US Embassy, USAID)

FY2011: Tetra Tech is currently assisting in the effort to provide electric power supplied by Da Afghanistan Breshna Sherkat (DABS) to the US Embassy. Tetra Tech met with DABS, USAID, and the US Embassy to discuss the various technical issues for such an arrangement. Tetra Tech investigated and selected voltage monitor equipment to monitor DABS power. The equipment is installed, and testing is ongoing.

Initiatives: Tetra Tech will continue testing and submit a report of the findings to USAID.

4.1.1.4 WO-LT-0023 Afghanistan Electrical Transmission and Generation Study

FY2011: Tetra Tech gathered data on the transmission and generation system from several governmental entities such as DABS, the Ministry of Energy and Water (MEW), the Afghan Energy Information Center (AEIC), etc.

Initiatives: This data will be used to prepare a long-term plan on the transmission/generation facilities required to meet Afghanistan's long-term electric growth. Data analysis is progressing and a computer model is being prepared. A report will be submitted during the first quarter of FY2012.

4.1.1.5 WO-LT-0024 Kud Bergh (Mazar) 48MW Power Plant Field Investigation

FY2011: Tetra Tech prepared a summary of options to present to USAID on the various options to re-establish power generation capability at the Kud Bergh power plant. The options were discussed with USAID so an informed decision could be made on which options are preferable. The final report then focused on these preferred options, and was submitted to USAID.

Initiatives: This work order was successfully completed.

4.1.1.6 WO-LT-0025 RC-East Villages Electrification

FY2011: Tetra Tech prepared conceptual designs for electrification of 46 villages to be supplied from a 20kV distribution line that runs along the Kabul-Charikar highway. All conceptual designs have been delivered to USAID. The villages of Sufyane Bala and Sufyane Pain have been energized. RC-East has purchased materials for Chaykal B, Chaykal C, and Jawzsang, and they are being delivered. Another order has just been placed for Chaykal A and D.

Initiatives: This project is ongoing, and Tetra Tech will continue to provide support during FY2012.

4.1.1.7 WO-LT-0030 Sheberghan 200MW Power Plant Feasibility Study

FY2011: Tetra Tech submitted a report including gas turbine/reciprocating engine options, heat and mass balance equations, evaluation of major equipment, and discussion of site plans.

Initiatives: This project was successfully completed.

4.1.1.8 WO-LT-0031 Concept Design for Three 20kV Lines

FY2011: Tetra Tech prepared conceptual design for the extension of three 20kV distribution lines:

- Chimtala to Maydan Shahr/Jalrez/Nerkh
- Boothak to Mohammad Agha

The third line was not designed:

- Chimtala to Jabel Seraj (cement plant)

Tetra Tech conducted surveys for line routes and preliminary bill of materials for the first two lines.

Initiatives: This project has been cancelled by RC-East due to a lack of funds.

4.1.1.9 WO-LT-0035 Afghanistan Electricity Sector Economic Study

FY2011: Based on a limited notice to proceed, Tetra Tech developed a report and model to determine the economic impacts of energy sector investments. The USAID Mission Director was briefed on the work order status on June 22nd, 2011. A draft report was submitted on August 31st, 2011 and the final report was submitted to USAID on October 3rd, 2011.

Initiatives: Tetra Tech is awaiting USAID comments.

4.1.1.10 WO-LT-0036 Tarakhil Power Plant Operational Evaluation

FY2011: A three-man team visited the plant to provide technical services for evaluating ongoing operability and maintenance concerns at the Tarakhil Power Plant. The Evaluation Team prepared a Technical Report to identify any equipment deficiencies or operational and maintenance practices that may have negatively impacted the optimal performance of the power plant.

Initiatives: This work order was successfully completed.

4.1.1.11 WO-LT-0044 Bamyan Valley T & D Design

FY2011: The Bamyan Small Hydro Project: Distribution Design Report created by NRECA has been reviewed in light of a 1MW photovoltaic array funded by NZAID replacing the now cancelled hydroelectric plant at Topchi.

Initiatives: The initial report on this project will be submitted in the first quarter of FY2012. USAID will then have the option of instructing Tetra Tech to design a new transmission and distribution design based around the 1MW photovoltaic array.

4.1.2 Vertical Structures

A summary of work performed during the FY2011 by the Vertical Structures group included providing technical support, document reviews, project meeting attendance, and design input on several major vertical structures engineering projects to USAID/OIEE, and is briefly described in the following sections.

4.1.2.1 WO-LT-0001 Regional and Provincial Training Centers Concept and Final Design

FY2011: A Site Development package for the Kabul Regional Afghanistan Civil Service Institute Training Center was in process, but was put on hold. This work order was to include development on four (4) sites throughout Afghanistan. A previously selected Kabul site was under review, final site location is yet to be determined.

4.1.2.2 WO-LT-0014 Vocational Training Center Scoping Narrative

FY2011: Space programming, conceptual floor plans, and discussion of building and site systems were prepared for USAID and the Ministry of Energy and Water for proposed new facilities at the VTC. The facilities include two new dormitories and a dining hall.

Initiatives: Current plans are to go forward with the dormitory and dining hall design. A SOW and ROM will be submitted for preparation of complete construction documents.

4.1.2.3 WO-LT-0015 Kabul University Men's Dormitory, DFAC & Laundry

FY2011: Tetra Tech continued third party technical support by attending the weekly construction coordination project meetings and providing field observation for these three projects.

Initiatives: Tetra Tech will continue to support this work order during FY2012.

4.1.3 Water and Sanitation

4.1.3.1 WO-LT-0005 Ghazi Boys High School (GBHS) Utility Construction Documents

FY2011: Tetra Tech completed utility construction QA support including submittal review and other engineering assistance in support of USAID, working with UNOPS and IRD. The utility construction substantial completion inspection was performed on August 17th, 2011. Minor support for the pending work on the GBHS Multi-Purpose Building contract was performed.

Initiatives: Tetra Tech is awaiting possible Utility Design, Grading, Site Layout, and Construction Administration Services through design for the proposed GBHS Multi-Purpose Building.

4.1.3.2 WO-LT-0006 Sardar Girls High School (SGHS) Utility Construction Documents

FY2011: Tetra Tech developed a final set of construction documents and bill of quantities for utilities construction. Project management tasks included attendance at weekly construction meetings to provide ongoing technical support to USAID while construction of the SGHS was underway before completion in September 2011.

Initiatives: Construction Administration Services for Site Layout, Grading and Utilities are pending award of utilities construction contract.

4.1.3.3 WO-LT-0015 Kabul University Men's Dormitory Design Review, Amendment #3 Sewer Capacity Study

FY2011: Tetra Tech performed system inspection and analysis of potential impacts on the existing sewer system resulting from adding the new Dining and Laundry facilities under construction. The final study report was submitted to USAID on August 12th, 2011.

Initiatives: This Amendment was successfully completed.

4.1.4 Field Services/Water Resources

4.1.4.1 WO-LT-0034 Topchi Hydro Power Plant Design Review

FY2011: Tetra Tech completed a review of the Afghan Clean Energy Program (ACEP) 65% design package.

Initiatives: This work order was successfully completed.

4.1.4.2 WO-LT-0039 CHEF Environmental Site Assessment Services

FY2011: Tetra Tech visited nine sites and performed Environmental Site Assessments based on the impacts and mitigation measures listed in the "Potential Environmental Impacts and

Recommended Mitigation Measures” table of the CHEF Program IEE provided by USAID and in various documents that were developed by IOM for the program.

Initiatives: This work order was successfully completed.

4.1.5 Transportation

Work in the Transportation sector included the QA Oversight for WO-LT-0007 the Strategic Provincial Roads – Southern and Eastern Afghanistan (SPR-SEA) program, conceptual design of four bridge types for the Khost PRT under the WO-LT-0009, finalization of the Limited Airport Master Plans (LAMP) for two (2) airports under WO-LT-0008, QA Oversight for the rehabilitation of Maimana and Faizabad Regional Airports under WO-LT-0029, and Project Administration Capacity Building with MoTCA under WO-LT-0041.

4.1.5.1 WO-LT-0007 QA Oversight SPR (Strategic Provincial Roads) Southern and Eastern Afghanistan

FY2011: Tetra Tech interviewed and hired Afghan Staff for the SPR oversight program including six Local National (LN) engineers. An expatriate senior QA engineer was also hired to assist in the supervision and training of the LN staff. Tetra Tech QA Engineers/Monitors reviewed plans and specifications for the various roadway projects that were scheduled for site visits. Ongoing in-house QA training was conducted on the quality control and testing procedures of materials that are to be incorporated into the roadway projects under the SPR Program. Tetra Tech QA Monitors regularly reviewed IRD field and lab test reports and reported the locations and dates of any test failures to IRD.

Tetra Tech staff attended periodic meetings with USAID and IRD staff to discuss the status of the completed and ongoing roads and the progress, problems and the upcoming site visit schedule for substantial and final inspection of the roads.

Periodic visits to the various roadway projects were conducted throughout the year. The projects sites visited were Road Nos. 2, 4, 5, 6, 7, 8, 9A, 9B, 10, 11, 15, 34, and 41A and Bridge Nos. 2 and 4. Following each site visit by Tetra Tech QA staff, field observation reports, photographs of site activities, and lab and field testing documents were compiled and developed into monthly site visit reports and delivered to USAID.

Final Safety Inspections were performed on Road Nos. 4, 5, 9A, 9B, 10, 11, 41A and Bridge No. 4. A Final Warranty Inspection was performed on Road 7 which had been previously completed and in service for over one year. Site inspections are still ongoing for Road No. 2 and Bridge No. 2.

In December, USAID issued a letter descopeing several of the roadways from the SPR program, and IRD developed their SPR 2011 final Implementation Plan based upon this letter.

On March 1, 2011 Tetra Tech transmitted to USAID a hard copy and CD of the Final Quality Assurance Manual that was developed for use in the ongoing training of the QA Engineers/Monitors for the SPR Program and as a field reference.

Initiatives: Tetra Tech and IRD will continue to coordinate site visits for Tetra Tech QA monitors to observe the final completion of Road No. 2 and Bridge No 2. The frequency of the visits will be contingent upon the progress of work and the status of security at the project

site. Tetra Tech will provide a detailed report of each site visit to USAID. Tetra Tech will continue to train Local National QA monitors on QA procedures and preparing site visit reports. Final QA Reports will be prepared and submitted to USAID for each completed SPR.

4.1.5.2 WO-LT-0008 LAMPs for Maimana and Faizabad Airport

FY2011: The LAMPs Reports for the Maimana and Faizabad Airports were completed in the first quarter of FY2011.

Initiatives: This work order was successfully completed.

4.1.5.3 WO-LT-0009 PRT Support

FY2011: Amendments were created to this general PRT work order number.

Initiatives: Tetra Tech will continue to support the PRTs in Amendments to this general work order as necessary.

4.1.5.4 WO-LT-0009 Amendment 1 PRT Support – Khost Bridge Final Design

FY2011: For a location in Khost Province, Tetra Tech developed conceptual documents and BOQs detailing four (4) different bridge type designs. The four (4) designs included box culverts, flat slab bridge superstructure supported on solid piers and abutments, reinforced concrete deck beam with reinforced concrete deck slab supported on solid piers and abutments, and corrugated metal pipe arches. USAID/Khost PRT determined that the reinforced concrete design was the most appropriate design for the crossing at Sagai and met the needs of the Khost PRT and Khost Province. The final design has been submitted.

4.1.5.5 WO-LT-0009 Amendment 2 PRT Support – Bamyan Dam Sites Pre-Feasibility Studies

FY2011: Tetra Tech completed the conceptual design for the implementation of a low-head diversion dam in the Kalu Valley, Bamyan Province including preliminary design drawings, geotechnical and geologic data, stability and seepage analysis, hydrology and hydraulics analysis, conceptual engineering designs for the dam, penstock, and powerhouse, and cost estimation.

Initiatives: Tetra Tech will continue to support this work order as necessary.

4.1.5.6 WO-LT-0009 Amendment 4 PRT Field Support – Matun and Lakan Crossings Conceptual Bridge Designs

FY2011: Tetra Tech completed and submitted bridge type studies and conceptual designs for bridges located at Matun and Lakan in Khost Province.

Initiatives: Tetra Tech is awaiting selection of the conceptual bridge to complete the final design.

4.1.5.7 WO-LT-0029 Technical Assistance to USAID for Rehabilitation Design and Construction on Maimana and Faizabad Regional Airports runways and Aprons

FY2011: Tetra Tech project personnel attended a kick-off meeting with MoTCA, USAID, FKH, GHI (Maimana Contractor) and KNK (Faizabad Contractor) to introduce all parties involved, discuss project milestones, lines of communication, and present Tetra Tech's role in providing third-party QA and technical review services to USAID and FAA. Tetra Tech

engineers and project managers will provide third party Quality Assurance checks at both airports during major construction activities, including the construction of the runways, shoulders, and safety zones. Tetra Tech QA engineers will perform site visits to both airports as needed and will provide USAID with a detailed report of ongoing activities upon return from each site visit.

Tetra Tech project staff conducted several meetings with MoTCA, USAID, ADB, FKH, GHI, FAA and KNK to discuss all outstanding issues at both airports. Tetra Tech performed a review of the site drainage design calculations for both airports and Tetra Tech personnel responded to USAID's request to review and provide input on FKH's proposed deviations on the Maimana Airport Design Standards for the runway shoulders and turnabout ramps.

Tetra Tech QA engineers have performed several site visits during milestone activities at both airports to observe ongoing construction activities. Some specific observations included obtaining soil samples from the runway shoulder, borrow pit (river bed), safety zone to determine the CBR of the soils, observing apron construction, resolving site drainage design issues, observing runway damage areas, determining suitability of safety zone and shoulder construction materials, and observing the contractor casting of cylinders for compressive strength and performing slump tests and field density tests.

FKH's contract with the ADB for services at the two (2) airports expired on June 30, 2011. Since MoTCA does not have qualified staff to assume the responsibilities previously provided by FKH personnel, USAID requested that Tetra Tech provide full time QA oversight at the airports until such time as MoTCA personnel are sufficiently trained to perform the day-to-day oversight themselves. Tetra Tech QA Engineers have been present during construction operations at Maimana Airport since July 26th on a full time basis. As the QA staff rotate back to the Kabul office, they prepare a detailed report of ongoing activities at the site for delivery to USAID.

Initiatives: Tetra Tech will continue to provide full time oversight services at Maimana Airport until the MoTCA personnel are prepared to assume the responsibilities. As construction activities progress at Faizabad Airport, Tetra Tech will also provide full-time QA oversight coverage at the airport for the construction of the runway, taxiway, apron and drainage facilities.

4.1.5.8 WO-LT-0041 MoTCA Capacity Building: Project Administration – Maimana and Faizabad Airports

FY2011: Implementation Letter No. 17 (IL 17) includes a requirement that the Government of the Islamic Republic of Afghanistan (GIROA) provide documentation regarding the monitoring, evaluation, quality assurance, and financial aspects of the rehabilitation of the regional airports. As the representative of the GIROA, MoTCA is tasked with the responsibility of providing the necessary documentation to USAID to fulfill the requirements of IL 17. Tetra Tech will coordinate with MoTCA staff to provide capacity building for project administration oversight services.

The goal is to provide the necessary training and oversight to the MoTCA at their Kabul offices to assist them in satisfying the reporting requirements of IL17. Tetra Tech has met with the Deputy Minister and the Human Resources Director of MoTCA and the Project Implementation Unit (PIU) Staff to coordinate the assignment of MoTCA personnel to the task. The PIU has been selected by MoTCA as their representative for the reporting

component of IL 17, and Tetra Tech met with their staff on September 13 to evaluate the availability of information and review the reporting requirements identified in IL17.

Initiatives: Tetra Tech will continue to work with the PIU to prepare the reports for USAID in accordance with the requirements of IL17. Tetra Tech will review material prepared by the PIU for submission to USAID, and provide recommendations as needed to assure that the staff is grasping the concept and responsibilities and that the appropriate materials are provided to USAID.

4.2 Progress

FY 2011 Work Order activity under this Task Order included work on 25 Administrative Work Orders and 31 Long Term Work Orders for a total of 56 Work Orders. Following is the breakdown of number of Work Orders by sector:

- Energy: 4 Administrative Work Orders, 11 Long Term Work Orders
- Water, Sanitation, and Water Resources: 3 Administrative Work Orders, 4 Long Term Work Orders
- Transportation: 3 Administrative Work Orders, 8 Long Term Work Orders
- Vertical Structures: 8 Administrative Work Orders, 3 Long Term Work Orders (includes architecture, energy, and water and sanitation support)
- Technical Support Services: 7 Administrative Work Orders, 5 Long Term Work Orders

The value of Long Term Work Orders initiated in FY2011 totals [REDACTED] A summary of the progress of each Work Order is shown in Table 4-1. A complete listing of all the Work Orders issued under this Task Order as well as FY2011 Work Orders can be found on the Work Order Status tables included in Appendix A.

<p align="center">Table 4-1 FY 2011 Active Work Order Summary Afghanistan Engineering Support Program IQC: Task Order 01 - EDH-I-00-08-00027-00 USAID Technical Office: USAID/Office of Infrastructure, Engineering, and Energy (OIEE) Reporting Thru September 30, 2011</p>		
Work Order Number	Work Order Title	Summary of Work Completed FY2011
<i>WO-A: Administrative Work Orders⁽¹⁾</i>		
WO-A-0024	Afghan First COP Meetings	Tetra Tech submitted a tentative agenda for these meetings.
WO-A-0046	Jalalabad Elec Power Distribution	Tetra Tech provided planning services including assisting USAID in developing a task order to extend electric power distribution from the soon to be completed 110/20-kV substation to distribution systems, unit substations and customer services. Tetra Tech provided assistance to the local electric utility to refine their "commercialization" practices.
WO-A-0047	Technical Review Maimana & Faizabad Airport	Provided QC Oversight & Field Observation reports on runway and building construction
WO-A-0051	MOT Electrical Phase II Drawing Review	Tetra Tech provided technical support services that included design review of 100% Electrical Drawings.
WO-A-0053	ACEP Report Review	Tetra Tech provided technical support services that included a review of the ACEP Energy Efficiency Assessment Report dated August 2, 2010.
WO-A-0058	Afghan Standardization	Ongoing investigation into the development of Afghan national construction standards.
WO-A-0059	Parwan Road Village Electrification	Tetra Tech provided design activities that included identifying village power requirements for villages along the Parwan Road between Chintala and Charikar for immediate CERP funding actions by RC-East. BOQs were developed for each village. This WO was rolled into the larger RC-East Villages Electrification WO-LT-0025.
WO-A-0060	Embassy Biodigestion Study	Work was on hold pending assignment of a POC and other guidance.
WO-A-0061	Bamyan Dam Study	Tetra Tech conducted a field investigation and prepared and submitted a preliminary geological assessment of six potential dam sites in Bamyan Province.
WO-A-0063	Topchi Hydropower Plant Canal Review	Tetra Tech conducted a review of the Winrock design.
WO-A-0064	Sufyane Village Electrification	Tetra Tech provided design activities that included identifying village power requirements for two (2) Sufyane Villages for immediate CERP funding actions by RC-East. BOQs were developed for each village. This WO was rolled into the larger RC-East Villages Electrification WO-LT-0025.
WO-A-0065	Pre-Award Survey of Afghan Construction Companies	Tetra Tech completed a Pre-Award Survey of two (2) construction companies in Kabul.
WO-A-0066	Sardar Roof Design Review	Tetra Tech provided structural design review of the roof design.
WO-A-0067	Ghazi Admin Bldg Design Review	Tetra Tech provided design review of all disciplines of the 100% design package.
WO-A-0068	USAID Plan Filing	Tetra Tech took inventory of and organized the paper-plans at OIEE and developed a searchable database of the inventory.
WO-A-0069	Construction Principles Guidelines	Tetra Tech developed a guidance document to strengthen coordination efforts between parties involved in construction primarily in sectors of construction contracting, design, quality assurance/quality control. Additionally, this document outlines general construction principles, practices, and standards.
WO-A-0070	100% NLCC Design Review	Tetra Tech provided a design review of all disciplines of a 100% design package.

Table 4-1 FY 2011 Active Work Order Summary Afghanistan Engineering Support Program IQC: Task Order 01 - EDH-I-00-08-00027-00 USAID Technical Office: USAID/Office of Infrastructure, Engineering, and Energy (OIEE) Reporting Thru September 30, 2011		
Work Order Number	Work Order Title	Summary of Work Completed FY2011
WO-A-0071	PTTC Water Tower Review	Tetra Tech provided a constructability review of the CHEF Program PTTC water tower design.
WO-A-0072	File Transfer Services	Tetra Tech is assisting USAID with downloading project files off of FTP sites and creating CD or hard copies of the files.
WO-A-0073	Roof Framing Design for Sardar Girls High School	Tetra Tech provided a roof design, incorporating previously produced deficient designs.
WO-A-0074	Insulation Materials Technical Comparison	Tetra Tech provided a technical analysis of two (2) different rigid insulation materials.
WO-A-0075	Khost-Gardez Highway Failure Investigation	Tetra Tech completed a site visit, reviewed design and construction documents, and prepared a report of the findings.
WO-A-0076	Kabul Road Preliminary Costing	Tetra Tech provided preliminary costing for a road located in Kabul.
WO-A-0077	KHPP Environmental Services	Tetra Tech performed a review of the environmental mitigation efforts of installation and operation of diesel units for the Kandahar Helmand Power Plant (KHPP).
WO-A-0078	Kajaki Unit 2 Assessment	Tetra Tech performed a technical review of Unit 2 at Kajaki Dam.
WO-LT: Long Term Work Orders⁽²⁾		
WO-LT-0001	Regional and Provincial Training Centers Concept and Final Design	Final plans for Regional and Provincial Training Centers submitted. Specific sites to be determined by USAID & ACSI, with site development packages to follow.
WO-LT-0004	MoPH Design Management: Extension of Staff Services & Design Reviews	Tetra Tech provided project management support and coordinated with OIEE and the design team. Final versions of the Scoping Statement and the Environmental Assessment were submitted.
WO-LT-0005	Ghazi Boys High School (GBHS) Utility Construction Documents	Tetra Tech completed utilities construction QA support services working with USAID, UNOPS, and IRD. Construction substantial completion inspection was held on August 17 th , 2011.
WO-LT-0006	Sardar Girls High School (SGHS) Utility Construction Documents	Tetra Tech submitted Addendum 2, Revision 1 Plans, Specifications and BOQ for utilities construction on August 2 nd , 2011.
WO-LT-0007	QA Oversight SPR - Southern & Eastern Afghanistan	QA Monitors made site visits to Bridges 2 and 4 and Roads 5, 7, 9A, 9B, 10, 11, and 41. Staff coordinating with IRD to continue making site visits to balance of ongoing road projects in SPR Program.
WO-LT-0008	LAMPs for Maimana & Faizabad Airport	Tetra Tech prepared the Limited Airport Master Plans for Faizabad and Maimana airports.
WO-LT-0009	PRT Field Support	See Amendments listed below.
WO-LT-0009 AMD 1	Khost Bridge Final Design	Tetra Tech completed the conceptual design, topographic survey, geotechnical investigation, and the final design.
WO-LT-0009 AMD 2	Bamyan Dam Sites Pre-Feasibility Study	Tetra Tech completed and submitted the Kalu conceptual design.
WO-LT-0009 AMD 4	Matun and Lakan Crossings Conceptual Bridge Designs	Tetra Tech submitted bridge study to USAID on April 30 th , 2011.
WO-LT-0012	Pul-e-Khumri (PK) to Chimtala Transmission Line	Tetra Tech provided conceptual design services for the PK and Chimtala electric transmission line upgrade. Tetra Tech submitted the final report to USAID.
WO-LT-0014	VTC Green Design	Tetra Tech prepared and presented a Scoping Narrative and space plan with conceptual floor plans for each building.

Table 4-1 FY 2011 Active Work Order Summary Afghanistan Engineering Support Program IQC: Task Order 01 - EDH-I-00-08-00027-00 USAID Technical Office: USAID/Office of Infrastructure, Engineering, and Energy (OIEE) Reporting Thru September 30, 2011		
Work Order Number	Work Order Title	Summary of Work Completed FY2011
WO-LT-0015	Kabul University Men's Dormitory Construction Inspection and DFAC Design Review	Sewer Capacity Study of impacts from new laundry and dining facilities was submitted on August 12th, 2011. Provided third party QA for DFAC, Laundry, and Men's Dormitory. Construction Technical support and Field Observation duties ongoing.
WO-LT-0021	Selected NEPS Transmission Line Field Investigations	A field visit of the substations and transmission lines was completed. The final report was submitted to USAID.
WO-LT-0022	Power Reliability Study (US Embassy, USAID)	Tetra Tech is assisting the US Embassy in its effort to connect to the DABS electric distribution system. Meters were purchased and testing is ongoing.
WO-LT-0023	Afghanistan Electrical Transmission and Generation Study	Tetra Tech has populated a power system study model with system data in preparation of model testing. Data analysis continues. A report will be submitted in the first quarter of FY 2012.
WO-LT-0024	Kud Bergh (Mazar) 48MW Power Plant Field Investigation	A site visit was completed. An options letter was submitted to USAID, offering 9 options for USAID's consideration. A final report was prepared keeping in mind USAID's preferred options, and it has been submitted to USAID.
WO-LT-0025	RC-East Villages Electrification	The villages of Sufyane Bala and Sufyane Pain have been energized. RC East awarded a materials supply contract to two (2) electrical suppliers for 46 villages.
WO-LT-0029	Maimana and Faizabad Airport 3 rd Party QA	GHI submitted Maimana Airport drainage channel calculations for review. Responded to FKH's request to deviate from Maimana Airport Design Standard for the runway shoulders and turnabout ramps. Met with involved parties to discuss logistics for both Faizabad and Maimana Airports.
WO-LT-0030	Sheberghan 200MW Power Plant Feasibility Study	Tetra Tech submitted a report including gas turbine/reciprocating engine options, heat and mass balance equations, evaluation of major equipment, and discussion of site plans.
WO-LT-0031	Concept Design for Three 20-kV Lines	Tetra Tech evaluated the line routes for a line between Boothak-Mohammed Agha and submitted concept design and engineering cost estimates to USAID. A preliminary line route selection for a line Chimtala-Maydan Shahr was also conducted. These findings were submitted to USAID and RC-East. This project has since been cancelled by RC-East due to lack of funds.
WO-LT-0033	USAID/OAA Claims Assistance	Tetra Tech began reviews of Claims received by USAID.
WO-LT-0034	Topchi HPP Design Review	Tetra Tech completed a review of the ACEP 65% design package.
WO-LT-0035	Afghanistan Electricity Sector Economic Study	Tetra Tech developed a report to determine the economic impacts of energy sector investments.
WO-LT-0036	Tarakhil PP Operational Evaluation	Tetra Tech completed a site evaluation and submitted a report of the findings to USAID.
WO-LT-0039	CHEF Environmental Site Assessment Services	Tetra Tech completed site inspections at Charikar, Parwan, and Jalalabad, Nangahar.
WO-LT-0041	MoTCA – Regional Airport Support	GHI submitted Maimana Airport drainage channel calculations for review. Responded to FKH's request to deviate from Maimana Airport Design Standard for the runway shoulders and turnabout ramps. Met with involved parties to discuss logistics for both Faizabad and Maimana Airports.

Table 4-1 FY 2011 Active Work Order Summary Afghanistan Engineering Support Program IQC: Task Order 01 - EDH-I-00-08-00027-00 USAID Technical Office: USAID/Office of Infrastructure, Engineering, and Energy (OIEE) Reporting Thru September 30, 2011		
Work Order Number	Work Order Title	Summary of Work Completed FY2011
WO-LT-0042	Afghan Women Internship Program	Tetra Tech began work on creating and implementing an internship program for female architecture and engineering students at Universities in Kabul.
WO-LT-0044	Bamyan Valley T&D Design	The Bamyan Small Hydro Project: Distribution Design Report has been reviewed. A report on Task 1 of this project will be submitted to USAID in the first quarter of FY2012.

Notes (#):

(1) Work Orders with anticipated level of effort of 18-mandays or less

(2) Work Orders that are planned to equal more than 18-mandays

5.0 Pending Work Orders

5.1.1.1 WOLT0020 Sheberghan Pipeline EA

Tetra Tech received the Initial Environment Examination (IEE) from USAID and is awaiting further direction on scope to begin the Environmental Impact Assessment (EIA).

5.1.1.2 WO-LT-0037 Judicial Training Center Site Services

Tetra Tech developed and submitted a SOW and ROM to provide technical support services for an UXO clearance, topographic survey and geotechnical report for the Judicial Training Center of the Supreme Court.

5.1.1.3 WO-LT-0038 Khost-Gardez Highway Investigation

Tetra Tech prepared a SOW and ROM to provide technical services to provide an independent analysis of the design and permanent repairs of the Khost-Gardez Highway failure. Tetra Tech completed a review of the permanent repair.

5.1.1.4 WO-LT-0040 Ghazni 100-Bed Hospital Environmental Site Assessment Services

Tetra Tech is awaiting direction from USAID regarding potential environmental site assessment work at this site.

5.1.1.5 WO-LT-0043 PTEC EA Power Transmission, Expansion and Connectivity

Tetra Tech prepared and submitted a SOW and ROM to prepare the Environmental Scoping Statement as well as the Environmental Assessment and Mitigation associated with USAID's Power Transmission, Expansion, and Connectivity (PTEC) Project.

5.1.1.6 WO-LT-0045 Darunta Technical Services

Tetra Tech performed a site investigation to Darunta Dam during the fourth quarter of FY2011. Tetra Tech is preparing and submitting a SOW and ROM to provide technical services in evaluating the operating condition of the existing turbine unit #1 and the installation of turbine units #2 and #3, which are under construction.

5.1.1.7 WO-LT-0046 Kajaki Technical Services

Tetra Tech prepared and submitted a SOW and ROM to conduct a site investigation and prepare an evaluation report and recommendations for Unit 1 at Kajaki Dam.

5.1.1.8 WO-LT-0047 USAID Project Reference Binder

Tetra Tech developed and submitted a SOW and ROM for this work order to create an OIEE project reference binder including projects that USAID-OIEE has worked on, is currently working on, or may work on in the future.

6.0 Financial

FY 2011 contract MOD activity increased the obligated funding to [REDACTED] through MOD 11.

6.1 Invoices, Projected Burn Rates, and Reach Back Usage

Table 8-1 AESP Expenditures and Burn Rate		
AESP FY2010 Invoices:		[REDACTED]
AESP FY2011 Invoices:		
October 2010	[REDACTED]	
November 2010	[REDACTED]	
December 2010	[REDACTED]	
Subtotal Q1 Expenditures		[REDACTED]
January 2011	[REDACTED]	
February 2011	[REDACTED]	
March 2011	[REDACTED]	
Subtotal Q2 Expenditures		[REDACTED]
April 2011	[REDACTED]	
May 2011	[REDACTED]	
June 2011	[REDACTED]	
Subtotal Q3 Expenditures		[REDACTED]
July 2011	[REDACTED]	
August 2011	[REDACTED]	
September 2011	[REDACTED]	
Subtotal Q4 Expenditures		[REDACTED]
FY2011 Cumulative Expenditures through September 30, 2011		[REDACTED]
Total Cumulative Expenditures through September 30, 2011		[REDACTED]
Current Estimated Average Burn Rate per Month	[REDACTED]	

6.2 Contract/Task Order Issues

Status of Obligated Funds: Based on the current billing and projected burn rate, the [REDACTED] in Obligated Funding will be exhausted at the end of February 2012.

Level of Effort Summary: As of September 30, 2011; 5,864 reach back man-days and 7,159 in-country man days for a total 13,023 man days were expended. The estimated LOE for the first and second contract year was 4,000 reach back man-days and 9,633 in-country man days for a total 13,633 man days budgeted. Additional home office support budget will be requested based upon actual work load to date.

Appendix A

Work Order Status

FY2011 WORK ORDER STATUS
Afghanistan Engineering Support Program
(Reporting Thru September 30, 2011) (Local National, USACC, SMART and Power time through September 30, 2011)

	Energy
	Water Resources
	Vertical Structures
	Transportation
	Water and Sanitation
	Multi-Disciplinary
	USAID Technical Support
	Pending Work Orders

Work Order Number	Program Type ⁽³⁾	Description	Status ⁽⁴⁾	Estimated Cost (ROM)	In Country Cost to Date ⁽⁵⁾	Reach Back Cost to Date ⁽⁵⁾	Total Cost to Date ⁽⁵⁾
WO-A: Administrative Work Orders⁽¹⁾							
WO-A-0024	TS	Afghan First COP Meetings	Open	NA			
WO-A-0046	E	Jalalabad Elec Power Distribution	Complete	NA			
WO-A-0047	T	Technical Review Maimana & Faizabad Airport	Complete	NA			
WO-A-0051	VS	MOT Electrical Phase II Drawing Review	Complete	NA			
WO-A-0053	E	ACEP Report Review	Complete	NA			
WO-A-0058	TS	Afghan Standardization	Open	NA			
WO-A-0059	E	Parwan Road Village Electrification	Open	NA			
WO-A-0060	W/S	Embassy Biodigestion Study	Open	NA			
WO-A-0061	WR	Bamyan Dam Study	Complete	NA			
WO-A-0063	WR	Topchi Hydropower Plant Canal Review	Complete	NA			
WO-A-0064	E	Sufyane Village Electrification	Open	NA			
WO-A-0065	TS	Pre-Award Survey of Afghan Construction Companies	Complete	NA			
WO-A-0066	VS	Sardar Roof Design Review	Complete	NA			
WO-A-0067	VS	Ghazi Admin Bldg Design Review	Complete	NA			
WO-A-0068	TS	USAID Plan Filing	Complete	NA			
WO-A-0069	VS	Construction Principles Guidelines	Complete	NA			
WO-A-0070	VS	100% NLCC Design Review	Complete	NA			
WO-A-0071	VS	PTTC Water Tower Review	Complete	NA			
WO-A-0072	TS	File Transfer Services	Open	NA			
WO-A-0073	VS	Roof Framing Design for Sardar Girls High School	Complete	NA			
WO-A-0074	VS	Insulation Materials Technical Comparison	Complete	NA			
WO-A-0075	T	Khost-Gardez Highway Failure Investigation	Complete	NA			
WO-A-0076	T	Kabul Road Preliminary Costing	Complete	NA			
WO-A-0077	TS	KHPP Environmental Services	Open	NA			
WO-A-0078	TS	Kajaki Unit 2 Assessment	Open	NA			
WO-LT: Long Term Work Orders⁽²⁾							
WO-LT-0001	VS	Regional and Provincial Training Centers Concept and Final Design	Open				
WO-LT-0004	W/S, E	MoPH Design Management: Extension of Staff Services & Design Reviews	Complete				
WO-LT-0005	W/S, E	GBHS Utility Construction Documents	Open				
WO-LT-0006	W/S, E	SGHS Utility Construction Documents	Open				
WO-LT-0007	T	QA Oversight SPR - Southern & Eastern Afghanistan	Open				
WO-LT-0008	T	LAMPs for Maimana & Faizabad Airport	Complete				
WO-LT-0009	T	PRT Field Support	Open				
WO-LT-0009 AMD 1	T	PRT Field Support - Khost Bridge Final Design	Open				
WO-LT-0009 AMD 2	T	PRT Field Support - Bamyan Dam Sites Pre-Feasibility Studies	Open				
WO-LT-0009 AMD 3	T	PRT Field Support - Bamyan Airport	Cancelled		\$0	\$0	\$0
WO-LT-0009 AMD 4	T	Matun and Lakan Crossings Conceptual Bridge Designs	Open				
WO-LT-0012	E	PK to Chimala Transmission Line	Open				
WO-LT-0014	VS	VTC Green Design	Open				
WO-LT-0015	VS	Kabul University Men's Dormitory Construction Inspection and DFAC Design Review	Open				
WO-LT-0016	E	Kandahar 10 MW Solar	Cancelled	NA	\$0	\$0	\$0
WO-LT-0018	VS	Tara Kheyl School Site Civil	Cancelled		\$0	\$0	\$0
WO-LT-0019	T	US Embassy Air Facility Construction QA	Cancelled		\$0	\$0	\$0
WO-LT-0020	E	Sherberghan Pipeline EIA	Pending		\$0	\$0	\$0
WO-LT-0021	E	Selected NEPS Transmission Line Field Investigation	Open				
WO-LT-0022	E	Power Reliability Study (US Embassy, USAID)	Open				
WO-LT-0023	E	Afghanistan Electrical Transmission & Generation Study	Open				
WO-LT-0024	E	Kud Bergh (Mazar) 48MW Power Plant Field Investigation	Open				
WO-LT-0025	E	RC-East Villages Electrification	Open				
WO-LT-0026	E	NEPS to SEPS Connection Review	Cancelled	NA	\$0	\$0	\$0
WO-LT-0027	WR	Bamyan Dam Study	Cancelled		\$0	\$0	\$0
WO-LT-0028	WR	Sarobi II Dam	Cancelled	TBD	\$0	\$0	\$0
WO-LT-0029	T	Maimana and Faizabad Airport 3rd Party QA	Open				
WO-LT-0030	E	Sherberghan 200MW Power Plant Feasibility Study	Complete				
WO-LT-0031	E	Concept Design for Three 20-kV Lines	Open				
WO-LT-0032	E	KHP QA Oversight	Cancelled		\$0	\$0	\$0
WO-LT-0033 AMD 1	TS	USAID/OAA Claims Assistance	Open				
WO-LT-0033 AMD 2	TS	USAID/OAA Claims Assistance - UNOPS	Open				
WO-LT-0033 AMD 3	TS	USAID/OAA Claims Assistance - IRD - SPR/SEA	Open		\$0	\$0	\$0
WO-LT-0034	WR	Topchi HPP Design Review	Complete				
WO-LT-0035	E	Afghanistan Electricity Sector Economic Study	Open				
WO-LT-0036	E	Tarakht PP Operational Evaluation	Complete				
WO-LT-0037	VS	Judicial Training Center Site Services	Pending		\$0	\$0	\$0
WO-LT-0038	T	Khost-Gardez Highway Investigation	Pending		\$0	\$0	\$0
WO-LT-0039	TS	CHEF Environmental Site Assessment Services	Complete				
WO-LT-0040	TS	Ghazni 100-Bed Hospital Environmental Site Assessment Services	Pending	TBD	\$0	\$0	\$0
WO-LT-0041	T	MoTCA - Regional Airport Support	Open				
WO-LT-0042	TS	Afghan Women Internship Program	Open				
WO-LT-0043	E	PTEC EA	Pending	TBD	\$0	\$0	\$0
WO-LT-0044	E	Power Transmission, Expansion and Connectivity	Open				
WO-LT-0045	TS	Bamyan Valley T & D Design	Open				
WO-LT-0045	TS	Darunta Technical Services	Pending	TBD	\$0	\$0	\$0

FY2011 WORK ORDER STATUS

Afghanistan Engineering Support Program

(Reporting Thru September 30, 2011) (Local National, USACC, SMART and Power time through September 30, 2011)

	Energy
	Water Resources
	Vertical Structures
	Transportation
	Water and Sanitation
	Multi-Disciplinary
	USAID Technical Support
	Pending Work Orders

Work Order Number	Program Type ⁽³⁾	Description	Status ⁽⁴⁾	Estimated Cost (ROM)	In Country Cost to Date ⁽⁵⁾	Reach Back Cost to Date ⁽⁵⁾	Total Cost to Date ⁽⁵⁾
WO-LT-0046	E	Kajaki Technical Services	Pending	TBD	\$0	\$0	\$0
WO-LT-0047	TS	OIEE Project Reference Binder	Pending		\$0	\$0	\$0

Notes ^(#):

- (1) Work Orders with anticipated level of effort of 18-mandays or less
- (2) Work Orders that are planned to equal more than 18-mandays
- (3) Program Type: Technical Support (TS), Energy (E), Transportation (T), Vertical Structures (VS), Water/Sanitation (W/S) or Water Resources (WR)
- (4) Status: Pending Approval, Open, or Complete
- (5) Labor, expenses, OH, GA, and fee.

Project Issues Summary

Project Issues Summary	Key		
	R	●	
	Y	●	
Afghanistan Engineering Support Program (AESP)	Y	●	Issue is proceeding but clarification or direction is required for completion.
UPDATED: September 25, 2011 By: [REDACTED]	G	●	Issue is proceeding and is expected to be completed on schedule.
Issue	Status		Action Required
Contract Plans			
Annual Work Plan	G	●	Draft Annual Work Plan submitted 8/14/2011. USAID comments received on draft. Awaiting updates from home office.
PMP (Performance Monitoring Plan)	G	●	Final PMP submitted 4/3/2010. USAID requested revisions 10/16/10 and met with TT on 11/6. TT submitted draft 11/20/10. Sector PMP forms submitted 11/22/10.
Quarterly Progress Reports	G	●	Draft Q3 Report submitted 7/10/11. Final Q3 Report submitted 7/21/2011.
Annual Report for Each FY	G	●	TT submitted final FY2010 Annual Report on 11/13/10. FY2011 Annual Report due 11/1/11.
SPOT System Access	Y	●	MOD 10 requires TT to track employees in the SPOT system. TT to continue SPOT submission.
Subcontractor and Purchase Limit for Consent	G	●	CO approved \$25K Micro-purchase, RFP required for amount over \$25K, and CO consent needed for amount over \$150K.
Financial			
Status of Obligated Funds and Budget Approval	G	●	LOE changes discussed at meeting on 07/21/2011. Letter submitted 7/21/11. MOD 12 pending.
Contract Expenditure Status	G	●	At the current expected burn rate, the current obligated funding ([REDACTED]) is expected to be depleted at the end of February 2012.
Obligated Contract Expenditure	G	●	At current expected burn rate - Obligated contract expenditures reached 75% in August 2011. Letter submitted 9/7/11.
Quarterly Accruals	G	●	TT to provide next quarterly billing and burn 12/20/11.
1420s & Staffing Approval			
1420 Approvals for Tetra Tech Employees and Sub-Consultants			T-0127 [REDACTED] (Home Office Support) Awaiting USAID approval.
Misc Items			
Armored Vehicle	G	●	Vehicle registration becoming more difficult. Tt requires USAID customs forms to register GFE Vehicles.
Success Stories (Periodic)	G	●	TT to prepare stories as work orders are completed.

Appendix B

Project Deliverables (CD)

USAID/Afghanistan
U.S. Embassy Cafe Compound
Great Masood Road
Kabul, Afghanistan
Tel: 202.216.6288
<http://afghanistan.usaid.gov>